

The 11th International Symposium on Integrated Field Science "Utilization of Resources and Environmental Protection"

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The 11th International Symposium on Integrated Field Science

“Utilization of Resources and Environmental Protection”

Date: August 1-2, 2013

Venue: Hotel Taikanso, Matsushima

10-76 Inuta, Matsushima, Matsushima-machi, Miyagi-gun, Miyagi, Japan

Organizer:

Field Science Center, Graduate School of Agricultural Science, Tohoku University

Project of Integrated Compost Science, Tohoku University

Innovative Research Center for Agricultural Sciences, Tohoku University

Animal Production Environment Society Japan

Co-Organizer:

Miyagi Prefectural Government, Agriculture, Forestry and Fisheries Department

Symposium Chair

Prof. Yutaka Nakai (Integrated Field Science Center, Tohoku University, Japan)

Organizer Committee:

Toyooki Ito, Michiaki Omura, Fuyumi Tojo, Waka Fukunaga, Hideomi Minoshima

Office e-mail address: pics.symposium@gmail.com

Secretary General

Yutaka NAKAI

Professor,

Laboratory of Sustainable Environmental Biology,

Field Science Center,

Graduate School of Agricultural Science,

Tohoku University

Program

August 1

12:00-	Registration desk open
13:00-13:30	Opening Ceremony
13:30-17:30	Oral Presentation
	Chair Person: Yutaka Nakai (Tohoku University, Japan)
13:30-14:05	O-1. Research and development in composting and animal waste management in Taiwan Liang Chou Hsia (National Pingtung University of Science and Technology, ROC)
14:05-14:40	O-2. Research and development in composting and animal waste management including wastewater treatment, renewable energy and so on in Korea Myung Gyu Lee (Sangji University, Korea)
14:40-15:15	O-3. Agricultural waste management in Europe, with an emphasis on anaerobic digestion Heribert Insam (University of Innsbruck, Austria)
15:15-15:30-	----- Tea Break -----
	Chair Person: Masanori Saito (Tohoku University, Japan)
15:30-15:50	O-4. Application of airborne remote sensing to biomass estimation Chinatsu Yonezawa (Tohoku University, Japan)
15:50-16:10	O-5. Life Cycle Impact Assessment of Compost, and Possibility of IT solution Michiaki Omura (Tohoku University, Japan)
16:10-16:30	O-6. Microbial community dynamics during composting process of animal manure analyzed by molecular biological methods Nozomi Yamamoto (Tokyo Institute of Technology, Japan)
16:30-16:50	O-7. Small scale of anaerobic digestion for decentralized energy production and bioresource recycling Chika Tada (Tohoku University, Japan)
16:50-17:10	O-8. Effect of organic matter application on soil carbon sequestration in Japanese agricultural land Yasuhito Shirato (National Institute for Agro-Environmental Sciences, Japan)
17:10-17:30	O-9. New function of compost: Inhibitory effect of acidulocompost on weed germination and growth Takehiko Yamamoto (Tohoku Agricultural Research Center, Japan)
18:00-20:00	Banquet (Hotel Taikanso, Matsushima)

August 2

9:00-	Registration desk open
10:00-11:45	Poster Presentation
10:00-10:50	Odd number
10:55-11:45	Even number
11:45-12:00	Closing Ceremony

Poster Session

P-1	T. Takahashi H. Kanno M. Nanzyo	Tohoku University, Japan	Factors Affecting Organic Carbon Accumulation in Humus Horizons of Andosols from the Tohoku University World Andosol Database
P-2	G. Saito H. Seki K. Uto Y. Kosugi	Tokyo Institute of Technology, Japan	Development of a Hyperspectral Sensor on UAV for Biomass estimation at Coastal Zone
P-3	H. Nasukawa T. Uno M. Saito R. Tajima T. Ito	Tohoku University, Japan	Effects of Bottom Sediment-Like Tsunami Deposit on Soil and Paddy Rice Growth
P-4	M. Saito	Tohoku University, Japan	Effect of Biochar on Crop Growth: Research in Japan
P-5	F. Takeda ¹ K. Nakamura ² K. Nakano ¹	¹ Nihon University, Japan., ² Tohoku University, Japan	Contribution of Vegetation on Water Purification Performances in Constructed Wetlands
P-6	M. Nanzyo K. Ito	Tohoku University, Japan	Phosphates in the Air-dried Residues of Water or Dilute Acid Extracts from Compost
P-7	H. Kunishima M. Nanzyo H. Kanno T. Takahashi	Tohoku University, Japan	Improvement of P Recovery Rate in an Uncultivated Non-Allophanic Andisol Using Fermented Chicken Manure Pellets and P Foraging Root Growth of Japanese Radish
P-8	T. Ito ¹ T. Yokota ¹ N. Tanikawa ^{1,2} M. Saigusa ^{1,3}	¹ Tohoku University, Japan., ² Aomori Prefectural Agriculture and Forestry Research Center, Japan., ³ Toyohashi University of Technology, Japan	Phosphate Bioavailability of Animal Manure Composts is Higher in Paddy Soil than in Upland Soil
P-9	R. Tajima ¹ T. Yamamoto ² M. Omura ¹ Y. Nakai ¹ T. Ito ¹ M. Saito ¹	¹ Tohoku University, ² Tohoku Agricultural Research Center, Japan	Assessment of Greenhouse Gas Emissions of the Production and Utilization of Acidulocompost from Fish Meal
P-10	S. Ogura T. Shishido S. Tanaka M. Tannai S. Sato K. Yusa	Tohoku University, Japan	Effect of Interannual Application of Cattle Manure Compost on Yield and Quality of Herbage and Soil Chemical Condition in a Temperate Grass Meadow
P-11	M. Nishida	NARO Tohoku Agricultural Research Center, Japan	Cattle Manure Compost Plays a Key Role in Keeping Soil Nitrogen Fertility in Paddy-Upland Rotation System

P-12	S. Ogaya ¹ M. Nishida ² K. Yasuda ¹ Y. Kaneta ¹ T. Sato ¹ F. Takakai ¹	¹ Akita Prefectural University, Japan, ² National Agricultural Research Center for Tohoku Region, Japan	Fate of Nitrogen Derived from Organic Materials Applied to Paddy and Converted Upland Fields -Results of the First Year Experiment-
P-13	W. Cheng Y. Okamoto S. Sato K. Kasahara K. Tawaraya H. Yasuda	Yamagata University, Japan	Combined Use of <i>Azolla</i> and Loach Suppressed Weed <i>Monochoria vaginalis</i> and Increased Organically Farmed Rice Yield
P-14	F. Sakurada T. Uno M. Saito R. Tajima T. Ito	Tohoku University, Japan	Positive Effects of Tubificid Worms on Rice Growth and Yield in Organic Farming System
P-15	S. Hara T. Shimizu T. Uno R. Tajima T. Ito M. Saito	Tohoku University, Japan	Phosphorous Uptake from Organic Matter via AM fungi - Possible Involvement of Phytate-Degrading Bacteria -
P-16	Y. Ito ¹ F. Tojo ¹ M. Watanabe ² K. Watanabe ³ S. Hayashi ² K. Seiwa ¹ Y. Nakai ¹ C. Tada ¹	¹ Tohoku University, Japan., ² National Institute for Environmental Studies, Japan., ³ Center for Environmental Science in Saitama, Japan	Relationship between Nitrogen Concentration and Ammonia Oxidizing Microbes in the Japanese Cedar Forest Soils under Different Managements
P-17	F. Tojo Y. Ito C. Tada Y. Nakai	Tohoku University, Japan	Detection of Anammox Bacteria from Forest soils of Different Thinning Intensity
P-18	Y. Chiba Y. Fukuda C. Tada Y. Nakai	Tohoku University, Japan	Host Immune Response to Gastric <i>Cryptosporidium</i>
P-19	R. Sato ¹ T. Takahashi ² K. Numazu ² T. Wakatsuki ³ Y. Morita ³ A. Komura ³ C. Tada ¹ Y. Fukuda ¹ Y. Nakai ¹	¹ Tohoku University, Japan., ² NOSAI Miyagi, Japan., ³ NOSAI Okayama, Japan	Phylogenetic Analysis of <i>E. zuernii</i> and <i>E. bovis</i> with Nuclear 18S rRNA and Mitochondrial CO1 Genes

P-20	S. T. Nguyen ^{1,2,3} Y. Fukuda ² C. Tada ² V. V. Huynh ¹ D. T. Nguyen ¹ Y. Nakai ²	¹ Central Vietnam Veterinary Institute, Vietnam., ² Tohoku University, Japan., ³ Japan Society for the Promotion of Science, Japan	Prevalence and Molecular Characterization of <i>Cryptosporidium</i> in Domestic Animals in Central Vietnam
P-21	S. T. Nguyen ^{1,2,3} Y. Fukuda ² C. Tada ² V. V. Huynh ¹ D. T. Nguyen ¹ Y. Nakai ²	¹ Central Vietnam Veterinary Institute, Vietnam., ² Tohoku University, Japan., ³ Japan Society for the Promotion of Science, Japan	Prevalence and Molecular Identification of <i>Fasciola</i> in Cattle in Central Vietnam.
P-22	T. Kotogaoka Y. Fukuda C. Tada Y. Nakai	Tohoku University, Japan	Molecular Epidemiological Survey for Zoonotic Parasite Infection in Livestock in the Tuul Basin in Mongolia
P-23	C. G. Lee Y. Baba C. Tada Y. Nakai	Tohoku University, Japan	Investigation of Microbial Community Analysis during the Decomposition of Lignocellulosic Biomass Using Rumen Fluid
P-24	Y. Shimura ¹ R. Asano ¹ W. Kawada ¹ Y. Hamano ¹ T. Ohdan ¹ J. Fukushima ¹ Y. Baba ² C. Tada ² Y. Nakai ² T. Inamoto ¹	¹ Akita Prefectural University, Japan., ² Tohoku University, Japan	Comparison of Bacterial Flora in a Methane Fermentation Plant in Field Science Center at Tohoku University and Bovine Rumen Used as the Plant Microbial Resource by 16S rRNA Gene Sequencing
P-25	G. Yoshida K. Kimura C. Tada	Tohoku University, Japan	Improvement of the Anaerobic Digestion Performance for Fish Industry Waste Recycles
P-26	T. Suzuki C. Tada	Tohoku University, Japan	Effects of Carrier on the Performance of a Methane Fermentation System Using heat from a Hot Spring
P-27	Y. Baba ^{1,2} C. G. Lee ¹ C. Tada ¹ Y. Fukuda ¹ Y. Nakai ¹	¹ Tohoku University, Japan., ² Research Fellow of the Japanese Society for the Promotion of Science (JSPS), Japan	Pretreatment of Lignocellulosic Rapeseed Waste by Rumen Fluid for Methane Production